

ABSTRACT OF THE INVENTION

A low drag fan assembly is provided which is adapted to be mounted within a ducting conduit of a ram air induction system of a vehicle for cooling a heat exchanger. The assembly includes a motor having an output drive; a motor bracketing system attached to the motor for suspending the motor within the ducting conduit; a fan hub attached to the output drive; and a plurality of foldable fan blades hingedly attached to an outer perimeter of the fan hub. When the motor is not activated, the plurality of fan blades are folded back in a non-deployed state which is generally longitudinally congruent to the airflow within the ducting conduit. When the motor is activated, the plurality of fan blades radially extend to a deployed state generally normal to and transverse to the airflow within the ducting conduit.